Subj: Minutes of the IPP telecon, Wed, 9/10/97
From: Tom Hastings and Carl-Uno Manros
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Attendees: Scott Isaacson, Roger deBry, Jim Walker, Lee Farrell, Ira
McDonald, Bob Herriot, Ron Bergman, Peter Zehler, Steve Zilles, Jay
Martin, Don Wright, Carl-Uno Manros, Tom Hastings

We wrote these minutes up after the fact, so please comment if any of
them are not correct.

1. Functionality freeze

We agreed to freeze the functionality of IPP V1.0 in order to get the
Model, Protocol, Directory, Requirements, and Rationale specs ready by
the end of September to forward to the IESG. We agreed to limit changes
to fixing errors and pluging holes in the existing functionality.

2. Making more Job Template attributes document attributes

We decided not to make any Job Template attributes document attributes,
thereby changing the current draft by making the "document-format",
"compression", "document-k-octets", "document-impressions", and
"document-media-sheets" Job Template attributes only be job level
attributes. Also the semantics that multi-valued Job Template
attributes would apply to each document was agreed to be removed from
IPP V1.0.

It was felt that the Job Template attributes could be made document
attributes in IPP V2.0, but that it would take too long to decide now
how to do it. We do not want to delay getting IPP V1.0 agreed and
forwarded as a standard. As existence proofs, there are at least two
proposals for upwards compatible extension to do so, one from Tom and
one from Bob.

3. Don't add 'dictionary' attribute syntax at this time

We decided that the proposal was good, but that we wouldn't add the
functionality at this time, since IPP V1.0 will have no attributes that
use it and we want to freeze the functionality. We will reserve an
attribute syntax code for it and can then register the attribute syntax
using the registration procedures for type 2 enums, after we finish IPP
V1.0, so that the 'dictionary' attribute syntax need not wait for IPP
V2.0.

4. Job-uri versus a 32-bit job-identifier

Since neither Paul Moore nor Randy Turner were participating, we felt it
best to postpone the discussion until the IPP meeting next Wednesday and
Thursday, 9/17 and 9/18.

ACTION ITEM (Carl-Uno): Call Paul and Randy to find out whether they
will be attending the IPP meeting on 9/17 and 9/18 in Atlanta or have
them attend by teleconference.

ACTION ITEM (Don Wright): Set up a conference call for the afternoon of 9/17 for any participants that are not attending for discussion of this issue.

We agreed that this issue is the biggest issue remaining in the specification. It is holding up prototyping and implementation. We also agreed that we must agree on a proposal next week and verify it on the mailing list next week.

We also wanted to understand the problems of implementing IPP under the existing Windows/NT Print API that returns a 32-bit integer to the application. We didn't know whether the 32-bit integer was the address of a control block which existing for the life of the job (so that a job-uri could be added to the control block), or was a 32-bit integer that was contained in the control block. In the latter case, the control block could go way immediately after the job was created, so that the 32-bit integer was all that the application had to make future references to the job, to query it or cancel it.

There is also the issue as to when the 32-bit job-identifier is generated: before contacting the Printer or after.

Would a more robust notification mechanism from the IPP Printer when the job complets help with removing stale job-identifier to job-uri map entries from the client, if the IPP Printer returned a job-uri, instead of a 32-bit job-identifier?

ACTION ITEM (Paul Moore): Please explain the problems again.

5. Registering MIME-types for document formats

We agreed that it would be better for the PWG to register most of the Printer Interpreter Language Family (IANA printer language) enums with IANA as MIME-types.

We also agreed that those Printer enums that already have registered MIME-types: 'application/postscript', 'application/pdf', and vnd.hp-PCL should use those MIME-types.

ISSUE: Should the PWG register the rest as 'application/xxx' because IPP is on standards track or should the PWG register the rest as 'vnd.vv-xx'? 'application/xxx' requires a document specifying the semantics of each MIME-type.

ACTION ITEM (Steve Zilles): Ask our Area Directors which they recommend before the IPP meeting next week.

ACTION ITEM (Tom Hastings): Prepare a strawman mapping from Printer enums to MIME-types for discussion at the meeting next week.

6. Security sub-group

A phone conference call is scheduled for Thursday, 9/11/97, 1:00 PDT.

7. Protyping and Testing sub-group

The group is looking for a solution for security for Internet testing.

One proposal is to have private agreements between clients and Printers on the times to run tests, until security has been resolved.

8. Requirements document

ACTION ITEM (Don Wright): Don will try to find time to update the Requirements document by the end of September to agree with the Model document.